SAMSUNG

DTB-S500F

Instructions for use

GB

DIGITAL TERRESTRIAL RECEIVER

SAFETY INSTRUCTIONS

This STB has been manufactured to satisfy international safety standards.
Please read the following recommended safety precautions carefully.

MAINS SUPPLY: AC 100-240V~, 50/60Hz

OVERLOADING: Do not overload wall outlets, extension cords or adapters as this can result in fire or electrical shock.

LIQUIDS: Keep liquids away from the STB.

CLEANING: Before cleaning, disconnect the STB from the wall socket. Use a cloth lightly dampened with water (no solvents) to clean the exterior.

VENTILATION: Do not block the STB ventilation holes. Ensure that free airflow is maintained around the STB. Never store the STB where it is exposed to direct sunlight or near heating equipment e.g. a radiator. Never stack other electronic equipment on top of the STB. Place the STB at least 30mm from the wall.

ATTACHMENTS: Do not use any attachment that is not recommended by the manufacturer; it may cause a hazard or damage the equipment.

CONNECTION TO THE CABLE TV SIGNAL AND TV:
Connect all components before plugging any power cords into the wall outlet. Always turn off the STB, TV and other components before you connect or disconnect any cables.

SERVICING: Do not attempt to service this product yourself. Any attempt to do so will make the warranty invalid. Refer all servicing to a qualified service agent.

LIGHTNING: If the STB is installed in an area subject to intense lightning activity, protection devices for the STB mains connector and modem telephone line are essential.
The individual manufacturer's instruction for safeguarding other equipment, such as TV set, Hi-Fi, etc., connected to the STB must also be followed during lightning storms.

GROUNDING: Terrestrial cable MUST BE EARTHED.
The grounding system must comply with SABS 061.

DTB-S500F

WARNING!

1. Follow these directions in order not to damage the power cord or plug.
- Do not modify or process the power cord or plug arbitrarily.
- Do not bend or twist the power cord too much.
- Make sure to disconnect the power cord with holding the plug.
- Separate heat appliances from the power cord as distance as possible in order to prevent the cover from being melted.

2. Failure to follow one of them may cause electrical shock.
- Do not open the main body.
- Do not insert metals or inflammable objects inside the product.
- Do not touch the power plug with a wet hand.
- Disconnect the power cord in case of lightening.
- Do not cover the receiver's ventilation openings with items such as newspapers, clothes etc.
- Do not place the receiver on top of household appliances that emit heat.

3. Do not use the product when it is out of order. If you continue to use the product with a defect, it can cause a serious damage to the product. Make sure to contact your local product distributor when the product is out of order.

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GENERAL FEATURES

1. USER SECTION

- 400 PROGRAMMABLE CHANNELS
- SOFTWARE DOWNLOAD VIA PC
- ADVANCED ELECTRONIC PROGRAM GUIDE
- MULTI LANGUAGE SUPPORTED FOR OSD
- TELETEXT (VBI) SUPPORTED WITH MULTI LANGUAGE
- FULL FUNCTION INFRARED REMOTE CONTROL UNIT
- AUTO AND MANUAL SCAN FACILITY
- CHANNEL ORGANIZING (PROGRAMMABLE)
- LOW POWER CONSUMPTION
- AUTO UPDATED EPG

2. TUNER SECTION

- 50~860 MHz WIDE BAND TUNER
- RF LOOP-THROUGH OUTPUT (MALE) FOR ANALOG RECEIVER

3. VIDEO SECTION

- DVB-T COMPLIANT
- MPEG-2 VIDEO (MP@ML)
- SUPPORTS ASPECT RATIO 4:3 (NORMAL) AND 16:9 (WIDE SCREEN)
- FFT: 2K OR 8K
- 2SCART, RCA

4. AUDIO SECTION

- MPEG 1 AUDIO LAYER I & II
- MONO, DUAL, STEREO AND JOINT STEREO AUDIO MODE
- 32, 44.1, AND 48 KHz SAMPLING FREQUENCIES
- VOLUME CONTROL AND MUTE FUNCTION THROUGH REMOTE CONTROL UNIT
- SPDIF DIGITAL AUDIO OUTPUT

CONNECTING YOUR STB

1. LOCATION OF THE RECEIVER

Your RECEIVER should be placed under proper ventilation.
Don't put in completely enclosed cabinet that will restrict the flow of air, resulting in overheating.
The location should be safeguarded from direct sunlight, excess moisture, rough handling or household pets.
Avoid stacking other electronic components on the top of the receiver.
The location should be safely accessible by the cable from your antenna system.

2. CONNECTING THE RECEIVER WITH AERIALS

You can connect the receiver to the following type of aerials:

- Use a standard outdoor roof aerial intended for receiving channels between VHF and UHF.
- Because many older roof-mounted aerials may only receive a limited number of channels, it is difficult or impossible to receive digital channels transmitted on higher frequencies. If so, you may replace the roof aerial.
- Some outdoor aerials are directed towards an analog transmitter. The aerial must be directed towards a digital TV transmitter.
- It is not desirable to use indoor or window mounted aerials, as it will be difficult or impossible to receive digital channels.

3. CONNECTING THE RECEIVER TO TV

To connect the receiver with your television, you can use SCART Cable or RCA cable.
In the case of connecting your TV through SCART cable, connect the SCART connector marked TV to the respective SCART port on the TV.

4. CONNECTING YOUR VCR

To connect a VCR, the receiver has been provided with SCART at the rear marked "VCR". Using a SCART connector, the VCR can be connected to the receiver.

5. CONNECTING YOUR ANALOG RECEIVER

This Receiver compatible with analog signal, So don't need any other extra connection except Digital connection.

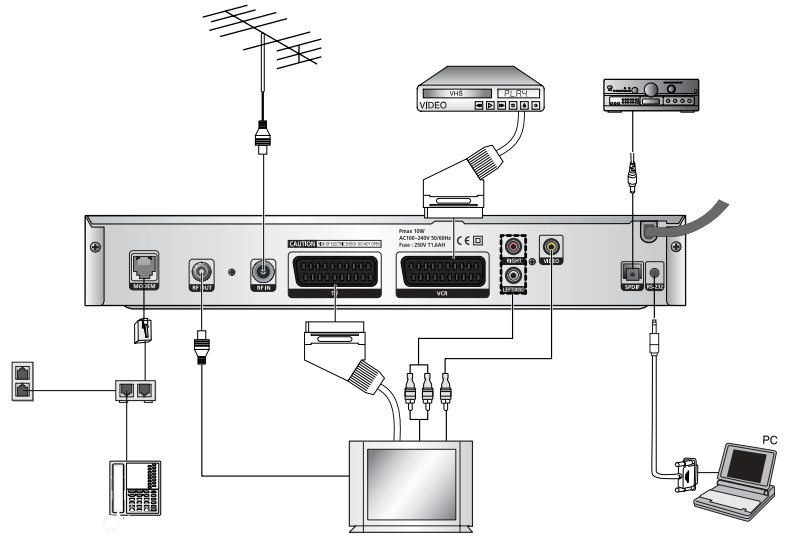
6. CONNECTING EXTERNAL AUDIO / HI-FI SYSTEM

To connect any external Audio Hi-Fi system, the receiver has been provided with two RCA connectors at the back of the receiver, marked with AUDIO L and R respectively to connect the left and right Audio.

7. CONNECTING DIGITAL AUDIO SYSTEM

Connect a fiber optic cable between SPDIF on the receiver and OPTICAL on the Digital Audio System.

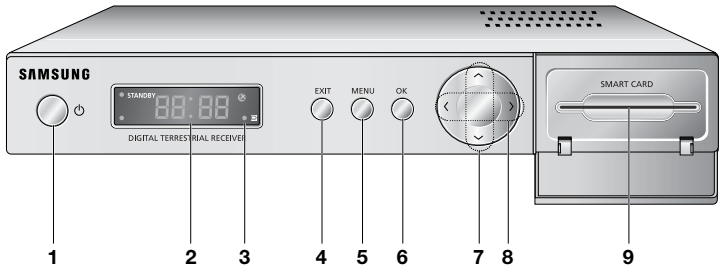
Connecting Figure



Note : **In some region, the digital terrestrial signal may be weak. So you'd better use the antenna in which the booster was built, for watching the weak signal channels.**

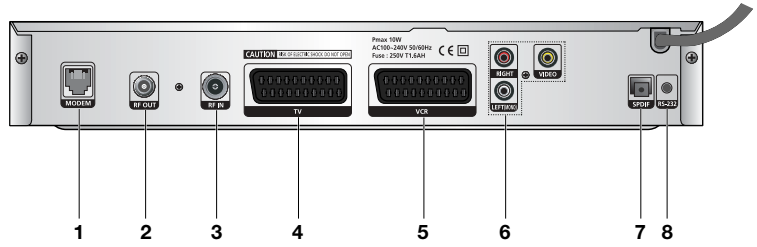
DESCRIPTION

Front Panel



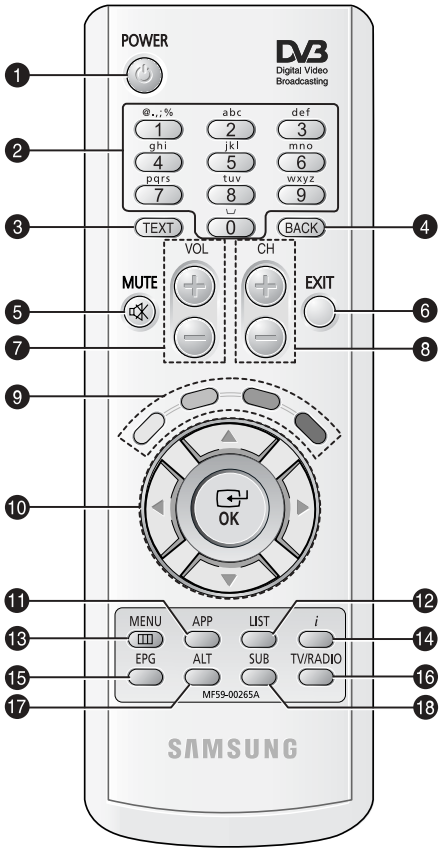
1. ⏻	This key is used to turn the receiver on and off (Standby).
2. 7 Segment Display	This LED display will show the current channel number. While the receiver is in Standby mode, the display will show the current time.
3. Infrared Sensor	This is to receive the IR commands from the Remote Control Unit.
4. EXIT	This is for exiting a menu or returning to the previous menu or exiting some banners.
5. MENU	This is for opening up the menu or returning to the previous menu.
6. OK	This is for entering and confirming any data to the receiver in the menu system. This key is for selecting the item.
7. ∧, ∨	These keys are used to change the channels.
8. <, >	These keys are used to increase and decrease the volume level manually.
9. Card Slot	Slot for smartcard.

Rear Panel



1. MODEM	Modem is a terminal which shares a line with a phone using splitter. It is used for handling PPV and transferring subscription information.
2. RF OUT	This is used to connect to your TV via RF cable.
3. RF IN	Use to connect a terrestrial antenna.
4. TV	This is used to connect to your TV.
5. VCR	This is used to connect to your VCR.
6. VIDEO, AUDIO L/R	These RCA connectors are for connecting any external video and audio.
7. SPDIF	Output for connection to a digital amplifier.
8. RS-232	This is used to connect your receiver to a computer for reading and loading data information.

Remote Control Unit



Note : When inserting batteries, make sure that the polarity(+/-) is correct.

1. POWER Puts the STB in stand-by mode (no signal to TV). Button's color is gray.

2. 0-9 Numeric key Enter numeric value and to select the channel directly by entering number on the Service list.

3. TEXT This key is used to select the teletext mode.

4. BACK This key is used in the MHP Application.

5. MUTE This key is used to toggle between normal & muted audio.

6. EXIT Exit a menu or return to the previous menu.

7. VOL+/VOL- These keys are used to increase or decrease the volume.

8. CH+/CH- These keys are used to change channels.

9. Color key (RED, GREEN, YELLOW, BLUE) Used to select special operation for the STB.

10. Arrow Key Move the highlight bar for the MHP Application.

OK Enter and confirm any data to the receiver in the menu system.

11. APP This key is the hard key for accessing the SAMSUNG application manager.

12. LIST Press while viewing TV and a list of channels is displayed.

13. MENU This key is used to open up the menu or return to the previous menu.

14. " *i* " Button is the "Now and Next Information" Key.

15. EPG Electronic Program Guide button displays the TV/Radio Program guide.

16. TV/RADIO Toggle between the TV and Radio channel.

17. ALT This key is used to select the soundtrack/videotrack list for the current service.

18. SUB Reserved.

BASIC FUNCTIONS

1. Display Screen

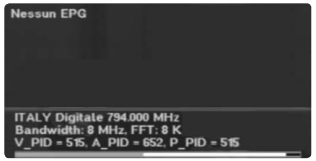
Before you can view the television program, you must perform the installation.
Therefore you will see only menu images at first.
After the television channels have been programmed, you will see the following picture (banner) each time you switch channels:

- Press the ***i*** key in view mode.

You will also see this picture each time you change channels.
When you press **TV/RADIO** key on the Remote Control Unit, **TV** and **Radio** program are toggled.

Detailed program information

- Press the ***i*** key twice while you are viewing a program.



First you will see the banner described above.
After pressing the ***i*** key a second time you will receive detailed program information for current program can be displayed on another banner, if there is more information.
When this information is more than one page, **CH+/CH-** can be used for page up and down.

Note **:** This service depends on service provider.

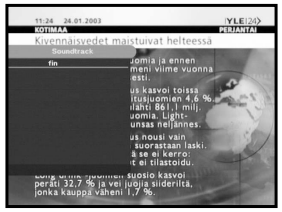
2. Volume Control

To control the volume level :

- Press the **VOL+** or **VOL-** keys to adjust the volume level.
- Press the **MUTE** key to turn to silence mode.
- Press the **MUTE** key again or **VOL+** or **VOL-** keys in order to cancel the mute function.

3. Select Soundtrack

- Press the **ALT** key to see the soundtrack list.
- Press the ▲ / ▼ and **OK** keys to select one.



4. Select Videotrack

- Press the **ALT** key twice to see the videotrack list.
- Press the ▲ / ▼ and **OK** keys to select one.

5. Service List

- Press the **LIST** key while you are viewing a program.
- Select list by pressing the **TV/RADIO**.

  The icon ⊸ behind the channel name symbolizes scrambled channel, and the icon 🔒 behind the channel name symbolizes parental locked channel.

- Select the channel by pressing the ▲ / ▼ and press the **CH+/CH-** for moving up or down pages on the lists.
- Press the **OK** key to watch that channel.

6. Program Information

EPG-Electronic Program Guide
The electronic program guide gives you a channel list for the channels.

Note : 1. This service depends on service provider.
2. After receiver recognized the GMT-time from the signal which takes few seconds, it can display correct EPG information.

- Press the **EPG** key while you are viewing a program.

This function is displayed on the screen by using only time.

- **RED** key : Red key is for moving back to the previous date.
- **GREEN** key : Green key is for moving to the next coming date.
- ***i*** key : This key is used to watch the program information, if there is more information than one page. Use the **CH+/CH-** keys to move up and down pages.
- ◄ / ► key : Use to display the program list by 30 minutes per block.

Time interval can be adjusted by press keys as followings on EPG screen:

1 Key: 1 hour and 30 minutes **2 key:** 30 minutes **3 key:** 15 minutes

- Select the channel by pressing the ▲ / ▼ keys and press the **OK** key to watch this channel.

OPERATING THE RECEIVER

Main Menu

After installing your antenna system and STB with appropriate connectors.

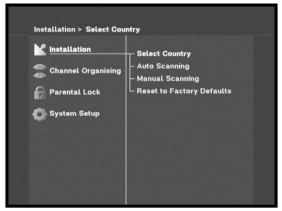
- Plug in the AC main power and switch on the receiver.
- Press the **MENU** key to bring up the main menu.

The following on screen display will appear:

The sub menu topics will be displayed.
For the sub-menus Installation, Channel Organization and Parental Lock, you need the PIN Code.

1. Installation

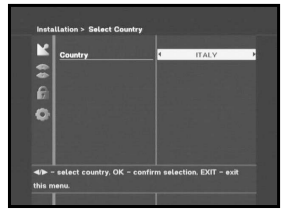
This menu consists of 4 sub-menus:
Select Country, Auto Scanning, Manual Scanning and Reset to Factory Defaults.



- Select "**Installation**" in the main menu mode to select the sub menu.
- Enter the **PIN** Code.

If you have not entered your own **PIN** Code then the **PIN** Code **0000** applies, which was set at the factory.

1.1 Select Country

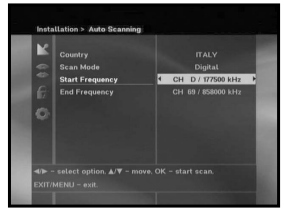


To tune-in new channels, the STB has been provided with the option "**Select Country**".
Select the country where broadcasting services are provided.
After selecting the "**Select Country**" from the Installation Menu, the following screen will be displayed:

- Select the country which you are in.
  You can select the value of **ITALY**, **SPAIN**, **SWEDEN**, **UK**, **USER**, **BELGIUM**, **GERMAN**, **FINLAND**, or **FRANCE** by using ◄ / ► key.
- After select option, press the **OK** key to choose the nation of broadcasting area to be served.
  If you don't want to save the changed, press **EXIT** key without **OK** key pressed.

Note **:** If national code is changed, all of saved programs will be deleted.

1.2 Auto Scanning

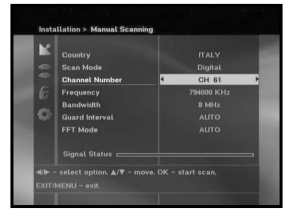


The sub menu "**Auto Scanning**" will enable download of the channels automatically from the preprogrammed load.

To download channels automatically:

- You can select the specified frequency between **Start Frequency** and **End Frequency**.
- Press the **OK** key.
  Auto Scanning menu will be displayed.
  All the channels in the list will be automatically downloaded.

1.3 Manual Scanning



To tune-in new channels and weak signals, the STB has been provided with the option "**Manual Scanning**" where the channel data can be entered by the user.
After selecting the "**Manual Scanning**" from the Installation Menu, the following screen will be displayed:

- Select the Channel Number.
  You can select the specified channel you want to find.

The followings are defined as a default, but optionally you can choose it.
Signal Status bar shows you if it is valid.

- Input the frequency of the channel you want to find.
- Select the bandwidth.
  You can select the value of **6**, **7** or **8** MHz.
- Select the Guard Interval Mode.
  You can select the value of **Auto**, **1/32**, **1/16**, **1/8**, or **1/4**.
- Select the FFT (Fast Fourier Transform) Mode.
  The value of **AUTO**, **2K** and **8K** is settings automatically.
- After select option, press the **OK** key to start the scanning process.

1.4 Reset to Factory Defaults

This is to restore the factory set values in case the user has encountered some problems after changing any values of channel data and others which may be in error.
At the request window, if you press the **OK** key, the receiver will be reset to factory default settings automatically.

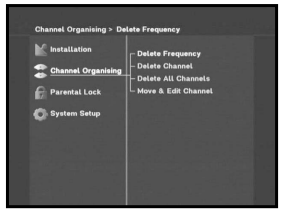
Note **:** This cause your previous settings to be deleted!

2. Channel Organising

The "**Channel Organising**" menu has four functions:
The "**Channel Organising**" menu is used to delete the Frequencies and Channels or move&edit channel as you want.

- Enter the **PIN** Code.

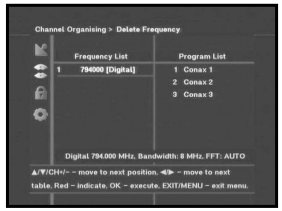
If you have not entered your own **PIN** Code **0000** applies, which was set at the factory.



2.1 Delete Frequency

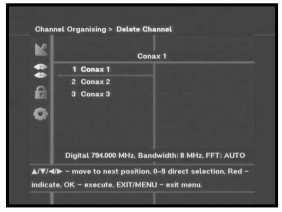
- Select the desired frequency list you want to delete by pressing the **RED** key.
- Press the **OK** key for confirmation.

Note **:** This feature doesn't delete frequency itself but deletes the list of channels registered for frequency.



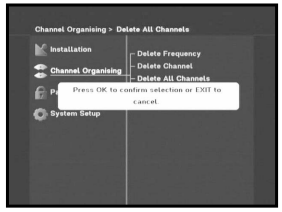
2.2 Delete Channel

- Select the desired channel you want to delete by pressing the **RED** key.
- Press the **OK** key for confirmation.



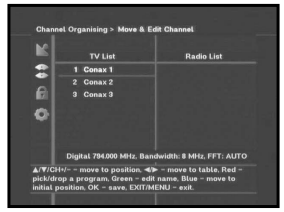
2.3 Delete All Channels

At the request window, press the **OK** key to delete all channels and press the **EXIT** key to exit.



2.4 Move & Edit Channel

- Select the TV/RADIO/Interactive list with ◄ / ► keys.
- Select the TV/RADIO/Interactive list with ▲ / ▼ or **CH+/CH-** keys.
- Select channel by pressing the **RED** key.
- Press the ▲ / ▼ keys to change the position of the channel you want, and **CH+/CH-** for monving up or down pages on list. Press the **OK** key for confirmation.
- If you want to return the channel to the initial position, do not press the **OK** key but press the **BLUE** key.

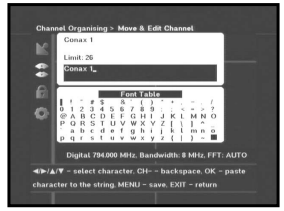

Channel Organising > Move & Edit Channel
TV List
Radio List
1 Conax 1
2 Conax 2
3 Conax 3
Digital 794.000 MHz, Bandwidth: 8 MHz, FFT: AUTO

To edit Channel Name

- Select the TV/RADIO/Interactive list with ◄ / ► keys.
- Select a channel list to move to other location with ▲ / ▼ or **CH+/CH-** keys.
- Press the **GREEN** key.
  Font Table will be displayed.
- Select desired character with ◄ / ►, ▲ / ▼ and then press the **OK** key to paste character to the string.

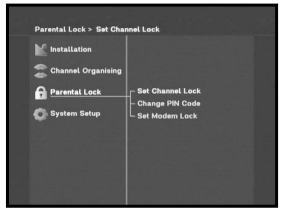
Note **: CH-** key : Backspace for deleting previous character.

- Press the **MENU** key and then press the **OK** key to save the set data.



3. Parental Lock

This "**Parental Lock**" feature sets viewing restrictions and prevents unauthorized access to your STB through the PIN (Personal Identification Number), which is a 4 digit number. (The factory preset PIN Code : **0000**)



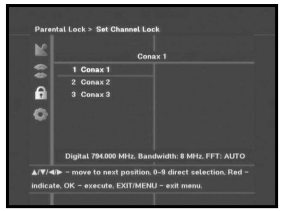
On selecting this menu, you will have three options: to set lock for any desired channel and to change your PIN Code and to Set Modem Lock.

- Enter PIN Code.

If you have not entered your own PIN Code then the PIN Code 0000 applies, which was set at the factory.

3.1 Set Channel Lock

- Select the channel by pressing the ◄ / ► or ▲ / ▼ keys.
- Select the channel lock by pressing the **RED** key.
- Press the **OK** key for confirmation.


Parental Lock > Set Channel Lock
Conax 1
1 Conax 1
2 Conax 2
3 Conax 3
Digital 794.000 MHz, Bandwidth: 8 MHz, FFT: AUTO
▲/▼/◄/► - move to next position, 0-9 direct selection. Red - indicate. OK - execute. EXIT/MENU - exit menu.

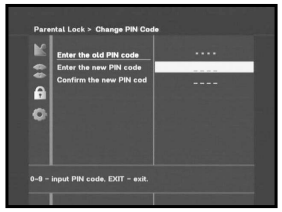
Whenever you need to view the locked channel, you will have to enter the PIN Code at the request window.
After entering PIN Code to able to access a parental locked channel, it will work on all parental locked channels.
It means that you can access all parental locked channels with entering PIN Code on any parental locked channel successfully.

To cancel the lock :

- Press the **RED** key again in order to cancel the lock.

3.2 Change PIN Code

To change the PIN Code, select the second option "**Change PIN Code**".


Parental Lock > Change PIN Code
Enter the old PIN code
Enter the new PIN code
Confirm the new PIN cod
0-9 - input PIN code, EXIT - exit.

This will take you to the following menu:

In this option, you need to enter the current PIN Code at the first cursor, and at the second cursor enter the desired PIN Code.
To confirm, you need to enter the new PIN Code again.

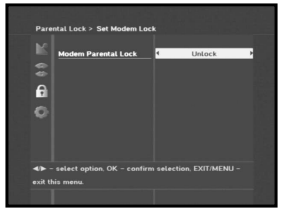
Please remember the PIN Code should be a 4 digit numerical value.

THE FACTORY PRESET PIN CODE : **0 0 0 0**.

Note **:** If you forget the PIN Code, contact your dealer or service provider. Once you change password, please do not forget and keep well.

3.3 Set Modem Lock

To block watching the paid-service, e.g. PPV(Pay Per View) service, select the third option, "**Set Modem Lock**".

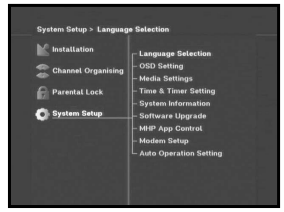


You can select **Lock** or **Unlock** in Modem Parental Lock Menu.

- Select **Lock**, this will make you block to watch paid-service.
- Select **Unlock**, this will make you free to watch paid-service.

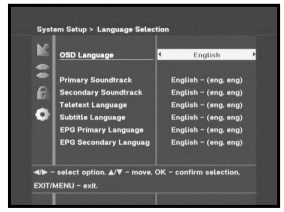
4. System Setup

This option enables you to change the factory preset system settings as per your requirements.



4.1 Language Selection

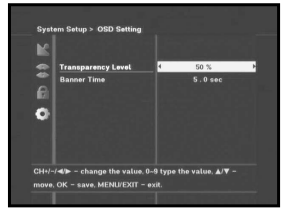
The "**Language Selection**" option allows the user to select the desired language of the OSD, Soundtrack, Teletext, and EPG.



- To accommodate user from different regions speaking different languages, OSD languages are available 5 languages. (English, Deutsch, Français, Italiano, and Español provided currently)
- To select the desired language menu, press the ◀ / ▶ keys to change language and press the **OK** key.
- The OSD, Soundtrack, Teletext, or EPG language will vary according to the selected language.

4.2 OSD Setting

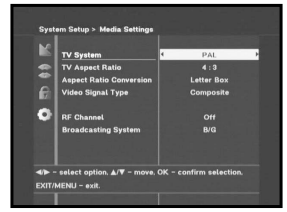
You can set the OSD transparency and the display(banner) time.


System Setup > OSD Setting
Transparency Level
50 %
Banner Time
5.0 sec
CH+/-/◀/▶ ~ change the value, 0~9 type the value, ▲/▼ ~ move, OK ~ save, MENU/EXIT ~ exit.

- Select OSD Transparency level.
  The OSD Transparency level from 0 to 100%.
  Setting is made with the numeric keys, ◀ / ▶ keys or **CH+/CH-** keys.
- Set the display duration of the information(banner) box displayed in the screen.
  The time ranges from 0.5 to 60.0 seconds.
  Setting is made with the numeric keys, ◀ / ▶ keys to be decrement/increment of 0.5sec and **CH+/CH-** keys 1sec.

4.3 Media Settings

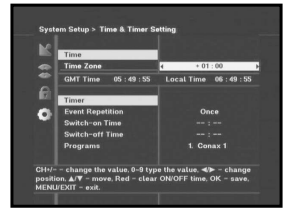
You can set the various media settings you want.
Place the cursor on this sub menu and press the **OK** key.



- Press the ▲ / ▼ keys to move the sub items and press the ◀ / ▶ keys to select the option.
- Press the **OK** key to confirm.
- Press the **MENU/EXIT** keys to exit the menu.
- Select the TV system : **PAL** or **SECAM**.
- Select the TV Aspect Ratio according to your TV:
  STANDARD **4 : 3** ratio or WIDE SCREEN **16 : 9** ratio type.
- Select the Aspect Ratio Conversion :
  None, **Letter Box** or **Pan & Scan**.
- Select the Video Signal Type :
  Composite or **Composite+RGB**.
- RF Channel : **Off** or **K21 CH ~ K69 CH**
- Broadcasting System : **B/G**, **I**, **D/K**

4.4 Time & Timer Setting

Various time modes can be set, such as current local time, switch on/off time.
The exact local present time can be adjusted by using the GMT.


System Setup > Time & Timer Setting
Time
Time Zone
+ 01 : 00
GMT Time 05 : 49 : 55
Local Time 06 : 49 : 55
Timer
Event Repetition
Once
Switch-on Time
-- : --
Switch-off Time
-- : --
Programs
1. Conax 1
CH+/- ~ change the value, 0~9 type the value, ◀/▶ ~ change position, ▲/▼ ~ move, Red ~ clear ON/OFF time, OK ~ save, MENU/EXIT ~ exit.

- Place the cursor on this sub menu and press the **OK** key.
- Press the ◀ / ▶ keys to change the Local time in Time Zone.
  The local time will be changed according to your location.

GMT is referred to the standard time of Greenwich.
This cannot be changed.

- Press the ◀ / ▶ keys to choose Event Repetition you want to reserve : Once, Daily, Every Sunday, Every Monday, Every Tuesday, Every Wednesday, Every Thursday, Every Friday and Every Saturday.
- Insert the preferable Switch on/off time by the **Numerical (0~9)** keys and ◀ / ▶ keys.
  Press the ◀ / ▶ keys to choose a switch time you want to reserve.
- Select program to set the event program by pressing the ◀ / ▶ and **Numerical (0~9)** keys.

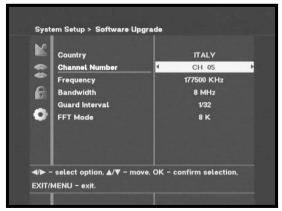
4.5 System Information

If you have to contact your service provider or a service center they might ask for information available from this menu.
Place the cursor on this sub menu and press the **OK** key.
The following will be the on-screen display.

System Setup > System Information
Loader Version 03 . 02
Main Software Version 01 . 58
Hardware Version 07 . 20
Website Info. www.samsungstb.com
EXIT/MENU ~ exit this menu.

4.6 Software Upgrade

You can download and upgrade the system software of the receiver through a specific channel through a specific channel designated by the broadcaster. The Broadcaster will provide you with more information about that.
If you select to download a new software version, all your previous settings, access code and favorite channels etc. will be erased! Downloading may take a While 'During downloading' don't turn off the receiver.

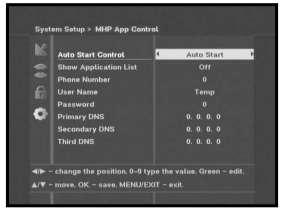

System Setup > Software Upgrade
Country ITALY
Channel Number CH 05
Frequency 177500 KHz
Bandwidth 8 MHz
Guard Interval 1/32
FFT Mode 8 K
◀/▶ ~ select option, ▲/▼ ~ move, OK ~ confirm selection.
EXIT/MENU ~ exit.

4.7 MHP App Control

If you want to change the display mode of MHP application, please follow the instruction below.

- Select **Auto Start** or **Not Allowed** in Auto Start Control mode with the ◀ / ▶ keys.
- Select On/Off in show Apllication List mode with the ◀ / ▶ keys.
- Press the **GREEN** key to edit contents in Phone Number, User Name and Password.
- Insert value by the **Numerical (0~9)** and ◀ / ▶ keys in DNS.
- Press '**OK**' to save **MHP App Control**.

Note : **Exit** without **OK** key makes MHP App Control unchanged.

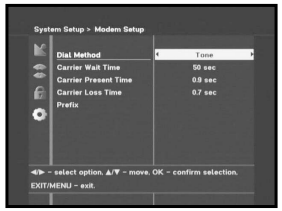

System Setup > MHP App Control
Auto Start Control Auto Start
Show Application List Off
Phone Number 0
User Name Temp
Password 0
Primary DNS 0. 0. 0. 0
Secondary DNS 0. 0. 0. 0
Third DNS 0. 0. 0. 0
◀/▶ ~ change the position, 0~9 type the value, Green ~ edit.
▲/▼ ~ move, OK ~ save, MENU/EXIT ~ exit.

4.8 Modem Setup

If you want to setup Modem, please follow the instruction below.

- Select **Tone** or **Pulse** in Dial Method.
- Select the '**Carrier Wait Time**' ranged in 1~255 seconds with the ◀ / ▶ keys or numeric keys.
- Select the '**Carrier Present Time**' ranged in 0.1~25.5 seconds with the ◀ / ▶ keys or numeric keys.
- Select the '**Carrier Loss Time**' ranged in 0.1~25.5 seconds with the ◀ / ▶ keys or numeric keys.
- Select Blank, 0, # or 9 in **Prefix** by using ◀ / ▶ keys, to specify your pre-dialing key for phone extension.
- Press '**OK**' to save Modem configuration if modified.

Note : **Exit** without **OK** key makes Modem Setup unchanged.

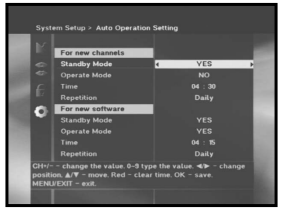

System Setup > Modem Setup
Dial Method Tone
Carrier Wait Time 50 sec
Carrier Present Time 0.9 sec
Carrier Loss Time 0.7 sec
Prefix
◀/▶ ~ select option, ▲/▼ ~ move, OK ~ confirm selection.
EXIT/MENU ~ exit.

4.9 Auto Operation Setting

You can set the parameters for searching new channels and upgrading new software.

- Select YES or NO in Standby Mode and Operate Mode by using ◀ / ▶ keys.
- Insert the preferable time by the **Numerical (0~9)**, **CH+/CH-** and ◀ / ▶ keys.
- Press the ◀ / ▶ keys to choose Repetition you want to reserve: Daily, Every Sunday, Every Monday, Every Tuesday, Every Wednesday, Every Thursday, Every Friday and Every Saturday.

Note : If YES in Standby Mode (with selecting NO in Operate Mode or Aborting the operation in progress in Operate Mode), the receiver automatically starts auto operation in Standby Mode after 45 minutes for new software and 1 hour for new channels from entering the standby mode.


System Setup > Auto Operation Setting
For new channels
Standby Mode YES
Operate Mode NO
Time 04 : 30
Repetition Daily
For new software
Standby Mode YES
Operate Mode YES
Time 04 : 15
Repetition Daily
CH+/- ~ change the value, 0~9 type the value, ◀/▶ ~ change position, ▲/▼ ~ move, Red ~ clear time, OK ~ save.
MENU/EXIT ~ exit.

TROUBLESHOOTINGS

In some region, the digital terrestrial signal may be weak.
So you'd better use the antenna in which the booster was built, for watching the weak signal channels.

You can download and upgrade the system software of the receiver through a specific channel through a specific channel designated by the broadcaster. The Distributor will provide you with more information about that.

Problem	Possible cause	Solution of the problem
No display LED on the front panel; No power supply	Power cord not plugged in correctly	Power cord plug in correctly
No pictures on the screen	Receiver in Standby mode; Scart not connected tightly to video output of television; incorrect channel or video output selected on television	Set receiver to "On"; Check connection and correct; Check channel and video output and correct (TV instruction manual)
No sound	Audio cord connected incorrectly; Loudness level = 0; Muting active	Check connection and correct; Increase loudness on television set; Press the MUTE key
Remote Control does not operate directly	Incorrect operation; Batteries dead or inserted incorrectly	Point remote control towards the Receiver. Replace batteries or insert correctly
Poor picture quality	Signal strength too low	Check the signal strength in the "Installation" menu, correct alignment of your antenna
On-Screen Error Message "Searching for signal"	Antenna cable not connected or not tight; incorrect position of the antenna;	Check connection and correct; Check position and correct, Check the signal strength in the "Installation" menu
On-Screen Error Message "Channel data does not exist."	Receiver not yet set	Scanning of in "Installation" menu

DISPOSAL

The device, packaging material (e.g. Styrofoam) and the batteries must never be disposed of with household refuse. Please obtain appropriate information about the regulations in your community, and dispose of all refuse in accordance with regulations at the separate locations provided.

TECHNICAL SPECIFICATIONS

Power supply

Type :	SMPS
Input voltage :	AC 100-240V~, 50/60Hz
Fuse rating :	250V T1.6AH

Demodulator

DEMODULATION :	OFDM DEMODULATION (DVB-T)
MODE :	2K/8K
CODE RATE :	Viterbi Convolutional Code Rate - 1/2,2/3,3/4,5/6,7/8

Tuner

Freq. Range :	50~860 MHz
Input signal level :	-20 ~ -78 dBm
Channel selection :	PLL frequency synthesizer
Input impedance :	75 Ω unbalanced
Connector type :	Din type female(RF in/RF out)

Video decoder

System decoding :	MPEG 2 ISO/IEC 13818 (Transport Stream)
Profile and level :	MPEG 2 MP@ML (4:2:2)
Data rate :	1~ 15 Mb/s
Video formats :	4:3 (normal) & 16:9 (widescreen)
Picture resolution :	720(H) x 576(V) x 50 fields/sec

Audio Decoder

System decoding :	MPEG 1 ISO/IEC 11172~3 layer I & II
Audio mode :	single channel, dual channel, stereo, joint stereo
Sampling frequency :	32, 44.1, 48, 96 KHz

Note : The specification of the STB may be changed without notice in advance.

RF modulator

Modulator output :	CH 21~69 (preset to CH 21)
Video type :	PAL BG, I, D/K (preset to PAL BG)
UHF output level :	70±5 dBμV
Output connector :	IEC male
Ant. O/P connector :	IEC female
Tuning method :	PLL frequency synthesizer
Default Channel :	Disabled

A/V output

TV SCART :	VIDEO (CVBS, RGB), AUDIO R&L
VCR SCART :	VIDEO (CVBS), AUDIO R&L
SPDIF :	Digital Audio Output

Physical Specification

Size (W x H x D) :	270 mm x 200 mm x 45 mm
Weight(Net) :	1.2 kg
Operating Temperature :	0 °C to +45 °C
Storage Temperature :	-10 °C to +70 °C

Etc

Accessories :	RCU, User's Manual, 2Batteries(AAA), Modem cable, Scart Cable

MEMO